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cad and pick and place machine bill of materials electronic circuit

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A method of manufacturing **electronic circuits** according to claim 1 and wherein ... 2 and wherein said database containing **pick & place machine**-independent, .... **electronic circuits** comprising: generating **CAD** data, a **bill of materials** ...  
[www.patentstorm.us/patents/7447560/claims.html](http://www.patentstorm.us/patents/7447560/claims.html)

[System and methods for automatic generation of component data - US ...](#)  
... **electronic circuits** including generating **CAD** data, a **bill of materials** and ... a **pick & place machine**-specific component loading specification, a **pick** ...  
[www.patentstorm.us/patents/7447560.html](http://www.patentstorm.us/patents/7447560.html)

[Tero Laakso Turku FI](#)

... for an **electronic circuit** and employing the **CAD** data, the **bill of materials** ... a **pick & place machine**-specific component loading specification, a **pick** ...  
[www.patents.com/Tero-Laakso/Turku/FI/122940/inventors/](http://www.patents.com/Tero-Laakso/Turku/FI/122940/inventors/) - [Cached](#)

[How To Get Your PCBs Assembled – Screaming Circuits](#)

Typically, we need **BOM**, Gerbers, & Centroid files but see below for more info. ... (aka Insertion or **Pick-and-place** or XY data) - This is the **machine** file in ASCII ... Many **CAD** systems allow you to export your PCB design in ASCII text ...  
[www.screamingcircuits.com/services/how-it-works.aspx](http://www.screamingcircuits.com/services/how-it-works.aspx) - [Cached](#) - [Similar](#)

[Frequently Asked Questions – Screaming Circuits](#)

Centroid data (aka Insertion or **Pick-and-place** or XY data) - This is the **machine** ... This Eagle **CAD** User Language Program (ULP) creates the specific format surface ... We require a **Bill of Materials (BOM)** to be in Microsoft Excel format ... Screaming Circuits parent company, Milwaukee **Electronics**, would be happy to ...  
[www.screamingcircuits.com/services/faq.aspx](http://www.screamingcircuits.com/services/faq.aspx) - [Cached](#) - [Similar](#)

[Advanced Assembly :: PCB Assembly | Printed Circuit Board ...](#)

**Electronic** assembly by engineers ensures quality printed **circuit** board assemblies to your ... 1) **Cad**-generated pcb assembly **BOM** list (or .xls spreadsheet). ... This is done so the **pick-n-place machine** can learn the XYRS information! ...  
[www.aapcb.com/FAQ1.asp](http://www.aapcb.com/FAQ1.asp) - [Cached](#) - [Similar](#)

[SMD & Through hole assembly - Ktron Electronics](#)

The customer's parts lists are thoroughly checked to the printed **circuit** boards. ... A first-off sample board is then built on the **pick and place machine** ... accurate **CAD** data for the screen-printing **machine**, **pick and place machine** and that the correct **bills of materials** are available for production planning. ...  
[www.ktronusa.com/surfacemount.php](http://www.ktronusa.com/surfacemount.php) - [Cached](#) - [Similar](#)

[K-State at Salina Unmanned Aircraft Systems Newsletter](#)

the **electronic circuit** that is needed for the application. Then a printed circuit ... of equipment including a Juki **pick** and **place machine** that is able to ... grammed from supplied **CAD** files and a **bill of materials (BOM)**. The **machine** ...  
[www.sai.ksu.edu/.../UAS%20Newsletter%204%20spring%202009.pdf](http://www.sai.ksu.edu/.../UAS%20Newsletter%204%20spring%202009.pdf) - [Similar](#)

[Patents in Class 29/739](#)

16, 7552527, Non-contact interface for **pick-and-place machines** .... manufacturing

**electronic circuits** including generating **CAD** data, a **bill of materials** and ...  
[www.freepatentsonline.com/CCL-29-739.html](http://www.freepatentsonline.com/CCL-29-739.html)

### Circuit Design on Your Linux Box Using gEDA

The area of **CAD** software used for **electronics** design is typically referred to ....  
connectivity information in a structured format suitable for **machine** processing. ... Finally,  
gnetlist is also used for **BOM (bill of materials)** generation and DRC ... An assembly  
drawing, drill file and **pick-and-place** file also are ...  
[www.linuxjournal.com/article/8438](http://www.linuxjournal.com/article/8438) - [Cached](#) - [Similar](#)

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